



SEQUENCE LISTING

<10> University of Alberta

<120> Cancer Monitoring and Therapeutics

<130> A894635US

<140> 10/672,399

<141> 2003-09-25

<150> US 60/472,401

<151> 2003-05-22

<160> 14

<170> PatentIn version 3.2

<210> 1

<211> 1737

<212> DNA

<213> Homo sapiens

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<212> PRT
<213> Homo sapiens
<400> 2

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Leu Gly Leu Met Thr Trp Ala Tyr Ala Ala Gly Val Pro Leu Ala Ser
35 40 45

Asp Arg Tyr Gly Leu Leu Ala Phe Gly Leu Tyr Gly Ala Phe Leu Ser
50 55 60

Ala His Leu Val Ala Gln Ser Leu Phe Ala Tyr Leu Glu His Arg Arg
65 70 75 80

Val Ala Ala Ala Ala Arg Gly Pro Leu Asp Ala Ala Thr Ala Arg Ser
85 90 95

Val Ala Leu Thr Ile Ser Ala Tyr Gln Glu Asp Pro Ala Tyr Leu Arg
100 105 110

Gln Cys Leu Ala Ser Ala Arg Ala Leu Leu Tyr Pro Arg Ala Arg Leu
115 120 125

Arg Val Leu Met Val Val Asp Gly Asn Arg Ala Glu Asp Leu Tyr Met
130 135 140

Val Asp Met Phe Arg Glu Val Phe Ala Asp Glu Asp Pro Ala Thr Tyr
145 150 155 160

Val Trp Asp Gly Asn Tyr His Gln Pro Trp Glu Pro Ala Ala Ala Gly
165 170 175

Ala Val Gly Ala Gly Ala Tyr Arg Glu Val Glu Ala Glu Asp Pro Gly
 180 185 190

Arg Leu Ala Val Glu Ala Leu Val Arg Thr Arg Arg Cys Val Cys Val
 195 200 205

Ala Gln Arg Trp Gly Gly Lys Arg Glu Val Met Tyr Thr Ala Phe Lys
 210 215 220

Ala Leu Gly Asp Ser Val Asp Tyr Val Gln Val Cys Asp Ser Asp Thr
 225 230 235 240

Arg Leu Asp Pro Met Ala Leu Leu Glu Leu Val Arg Val Leu Asp Glu
 245 250 255

Asp Pro Arg Val Gly Ala Val Gly Gly Asp Val Arg Ile Leu Asn Pro
 260 265 270

Leu Asp Ser Trp Val Ser Phe Leu Ser Ser Leu Arg Tyr Trp Val Ala
 275 280 285

Phe Asn Val Glu Arg Ala Cys Gln Ser Tyr Phe His Cys Val Ser Cys
 290 295 300

Ile Ser Gly Pro Leu Gly Leu Tyr Arg Asn Asn Leu Leu Gln Gln Phe
 305 310 315 320

Leu Glu Ala Trp Tyr Asn Gln Lys Phe Leu Gly Thr His Cys Thr Phe
 325 330 335

Gly Asp Asp Arg His Leu Thr Asn Arg Met Leu Ser Met Gly Tyr Ala
 340 345 350

Thr Lys Tyr Thr Ser Arg Ser Arg Cys Tyr Ser Glu Thr Pro Ser Ser
 355 360 365

Phe Leu Arg Trp Leu Ser Gln Gln Thr Arg Trp Ser Lys Ser Tyr Phe
 370 375 380

Arg Glu Trp Leu Tyr Asn Ala Leu Trp Trp His Arg His His Ala Trp
 385 390 395 400

Met Thr Tyr Glu Ala Val Val Ser Gly Leu Phe Pro Phe Phe Val Ala
 405 410 415

Ala Thr Val Leu Arg Leu Phe Tyr Ala Gly Arg Pro Trp Ala Leu Leu
 420 425 430

Trp Val Leu Leu Cys Val Gln Gly Val Ala Leu Ala Lys Ala Ala Phe
 435 440 445

Ala Ala Trp Leu Arg Gly Cys Leu Arg Met Val Leu Leu Ser Leu Tyr
450 455 460

Ala Pro Leu Tyr Met Cys Gly Leu Leu Pro Ala Lys Phe Leu Ala Leu
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Val Thr Met Asn Gln Ser Gly Trp Gly Thr Ser Gly Arg Arg Lys Leu
485 490 495

Ala Ala Asn Tyr Val Pro Leu Leu Pro Leu Ala Leu Trp Ala Leu Leu
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Leu Leu Gly Gly Leu Val Arg Ser Val Ala His Glu Ala Arg Ala Asp
515 520 525

Trp Ser Gly Pro Ser Arg Ala Ala Glu Ala Tyr His Leu Ala Ala Gly
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Ala Gly Ala Tyr Val Gly Tyr Trp Val Ala Met Leu Thr Leu Tyr Trp
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565 570 575

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gccgccgggg tgccgctggc ctccgatcgc tacggcctcc tggccttcgg cctctacggg 180
gccttccttt cagcgcacct ggtggcgagc agcctcttcg cgtacctgga gcaccggcg 240
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gacctctaca tggtcgacat gttccgcgag gtcttcgctg acgaggaccc cgccacgtac 480
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 20 25 30

Leu Gly Leu Met Thr Trp Ala Tyr Ala Ala Gly Val Pro Leu Ala Ser
 35 40 45

Asp Arg Tyr Gly Leu Leu Ala Phe Gly Leu Tyr Gly Ala Phe Leu Ser
 50 55 60

Ala His Leu Val Ala Gln Ser Leu Phe Ala Tyr Leu Glu His Arg Arg
 65 70 75 80

Val Ala Ala Ala Ala Arg Gly Pro Leu Asp Ala Ala Thr Ala Arg Ser
 85 90 95

Val Ala Leu Thr Ile Ser Ala Tyr Gln Glu Asp Pro Ala Tyr Leu Arg
 100 105 110

Gln Cys Leu Ala Ser Ala Arg Ala Leu Leu Tyr Pro Arg Ala Arg Leu
 115 120 125

Arg Val Leu Met Val Val Asp Gly Asn Arg Ala Glu Asp Leu Tyr Met
 130 135 140

Val Asp Met Phe Arg Glu Val Phe Ala Asp Glu Asp Pro Ala Thr Tyr
 145 150 155 160

Val Trp Asp Gly Asn Tyr His Gln Pro Trp Glu Pro Ala Ala Ala Gly
 165 170 175

Ala Val Gly Ala Gly Ala Tyr Arg Glu Val Glu Ala Glu Asp Pro Gly
 180 185 190

Arg Leu Ala Val Glu Ala Leu Val Arg Thr Arg Arg Cys Val Cys Val
 195 200 205

Ala Gln Arg Trp Gly Gly Lys Arg Glu Val Met Tyr Thr Ala Phe Lys
 210 215 220

Ala Leu Gly Asp Ser Val Asp Tyr Val Gln Val Cys Asp Ser Asp Thr
 225 230 235 240

Arg Leu Asp Pro Met Ala Leu Leu Glu Leu Val Arg Val Leu Asp Glu
 245 250 255

Asp Pro Arg Val Gly Ala Val Gly Gly Asp Val Arg Ile Leu Asn Pro
 260 265 270

Leu Asp Ser Trp Val Ser Phe Leu Ser Ser Leu Arg Tyr Trp Val Ala
 275 280 285

Phe Asn Val Glu Arg Ala Cys Gln Ser Tyr Phe His Cys Val Ser Cys
 290 295 300

Ile Ser Gly Ser Leu Gly Thr Pro Pro Gly Pro Ala Ala Thr Gln Arg
 305 310 315 320

Arg Pro Arg Pro Ser Cys Gly Gly Ala Ser Arg His Ala Gly Pro Ser
 325 330 335

Arg Thr Ser Val Ser Gly Cys Thr Thr Arg Ser Gly Gly Thr Gly Thr
 340 345 350

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Trp Arg Pro Leu Cys Cys Val Cys
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 <213> Homo sapiens

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<210> 6
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Met Arg Gln Gln Asp Ala Pro Lys Pro Thr Pro Ala Ala Arg Arg Cys
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Ser Gly Leu Ala Arg Arg Val Leu Thr Ile Ala Phe Ala Leu Leu Ile
          20          25          30

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Leu Gly Leu Met Thr Trp Ala Tyr Ala Ala Gly Val Pro Leu Ala Ser
          35          40          45

```

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Asp Arg Tyr Gly Leu Leu Ala Phe Gly Leu Tyr Gly Ala Phe Leu Ser
          50          55          60

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Ala His Leu Val Ala Gln Ser Leu Phe Ala Tyr Leu Glu His Arg Arg
65          70          75          80

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Val Ala Ala Ala Ala Arg Gly Pro Leu Asp Ala Ala Thr Ala Arg Ser
          85          90          95

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Val Ala Leu Thr Ile Ser Ala Tyr Gln Glu Asp Pro Ala Tyr Leu Arg
          100          105          110

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Gln Cys Leu Ala Ser Ala Arg Ala Leu Leu Tyr Pro Arg Ala Arg Leu
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Arg Val Leu Met Val Val Asp Gly Asn Arg Ala Glu Asp Leu Tyr Met
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Ala Val Gly Ala Gly Ala Tyr Arg Glu Val Glu Ala Glu Asp Pro Gly				
	180	185	190	
Arg Leu Ala Val Glu Ala Leu Val Arg Thr Arg Arg Cys Val Cys Val				
	195	200	205	
Ala Gln Arg Trp Gly Gly Lys Arg Glu Val Met Tyr Thr Ala Phe Lys				
	210	215	220	
Ala Leu Gly Asp Ser Val Asp Tyr Val Gln Val Cys Asp Ser Asp Thr				
	225	230	235	240
Arg Leu Asp Pro Met Ala Leu Leu Glu Leu Val Arg Val Leu Asp Glu				
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Asp Pro Arg Val Gly Ala Val Gly Gly Asp Val Arg Ile Leu Asn Pro				
	260	265	270	
Leu Asp Ser Trp Val Ser Phe Leu Ser Ser Leu Arg Tyr Trp Val Ala				
	275	280	285	
Phe Asn Val Glu Arg Ala Cys Gln Ser Tyr Phe His Cys Val Ser Cys				
	290	295	300	
Ile Ser Gly Pro Leu Glu Ser Cys Pro Gly Pro Arg Glu His Ala Met				
	305	310	315	320
Met Pro Ser Phe Leu Ala Pro Val Gln Val His Leu Gln Val Pro Leu				
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Leu Leu Arg Asp Ala Leu Val Leu Pro Ala Val Ala Glu Pro Ala Asp				
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Thr Leu Val Gln Val Val Leu Pro				
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 <211> 1065
 <212> DNA
 <213> Homo sapiens

<400> 7
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<210> 8
<211> 320
<212> PRT
<213> Homo sapiens

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<400> 8
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Glu His Arg Arg Val Ala Ala Ala Ala Arg Gly Pro Leu Asp Ala Ala
20           25           30

```

```

Thr Ala Arg Ser Val Ala Leu Thr Ile Ser Ala Tyr Gln Glu Asp Pro
35           40           45

```

```

Ala Tyr Leu Arg Gln Cys Leu Ala Ser Ala Arg Ala Leu Leu Tyr Pro
50           55           60

```

```

Arg Ala Arg Leu Arg Val Leu Met Val Val Asp Gly Asn Arg Ala Glu
65           70           75           80

```

```

Asp Leu Tyr Met Val Asp Met Phe Arg Glu Val Phe Ala Asp Glu Asp
85           90           95

```

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Pro Ala Thr Tyr Val Trp Asp Gly Asn Tyr His Gln Pro Trp Glu Pro
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Glu	Asp	Pro	Gly	Arg	Leu	Ala	Val	Glu	Ala	Leu	Val	Arg	Thr	Arg	Arg
	130					135						140			
Cys	Val	Cys	Val	Ala	Gln	Arg	Trp	Gly	Gly	Lys	Arg	Glu	Val	Met	Tyr
	145				150					155					160
Thr	Ala	Phe	Lys	Ala	Leu	Gly	Asp	Ser	Val	Asp	Tyr	Val	Gln	Val	Cys
			165						170					175	
Asp	Ser	Asp	Thr	Arg	Leu	Asp	Pro	Met	Ala	Leu	Leu	Glu	Leu	Val	Arg
			180					185					190		
Val	Leu	Asp	Glu	Asp	Pro	Arg	Val	Gly	Ala	Val	Gly	Gly	Asp	Val	Arg
	195						200					205			
Ile	Leu	Asn	Pro	Leu	Asp	Ser	Trp	Val	Ser	Phe	Leu	Ser	Ser	Leu	Arg
	210					215					220				
Tyr	Trp	Val	Ala	Phe	Asn	Val	Glu	Arg	Ala	Cys	Gln	Ser	Tyr	Phe	His
	225				230					235					240
Cys	Val	Ser	Cys	Ile	Ser	Gly	Pro	Leu	Gly	Leu	Tyr	Arg	Asn	Asn	Leu
				245					250					255	
Leu	Gln	Gln	Phe	Leu	Glu	Ala	Trp	Tyr	Asn	Gln	Lys	Phe	Leu	Gly	Thr
			260					265					270		
His	Cys	Thr	Phe	Gly	Asp	Asp	Arg	His	Leu	Thr	Asn	Arg	Met	Leu	Ser
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Met	Gly	Tyr	Ala	Thr	Lys	Ala	Glu	Gly	Thr	Arg	Trp	Ser	Gly	Thr	Pro
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